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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/080,104	02/21/2002	Kaoru Koike	09792909-5344	1692	
26263	7590 02/10/2005		EXAMINER		
SONNENSCHEIN NATH & ROSENTHAL LLP			ERDEM,	ERDEM, FAZLI	
P.O. BOX 061080 WACKER DRIVE STATION, SEARS TOWER CHICAGO, IL 60606-1080			ART UNIT	PAPER NUMBER	
			2826		
			DATE MAILED: 02/10/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

1	Application No.	Applicant(s)				
	10/080,104	KOIKE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Fazli Erdem	2826				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 08 No	ovember 2004.					
	action is non-final.					
3) Since this application is in condition for allowar						
Disposition of Claims						
 4) Claim(s) 1-12,14-49,51-82 and 84-86 is/are pending in the application. 4a) Of the above claim(s) 1-11 and 38-49 is/are withdrawn from consideration. 5) Claim(s) 12,14-37,51-82 and 84-86 is/are allowed. 6) Claim(s) 83 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	(PTO-413) te atent Application (PTO-152)				

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DETAILED ACTION

Allowable Subject Matter

1. Claims 12, 14-37, 51-82 and 84-86 allowed.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 83 rejected under 35 U.S.C. 103(a) as being unpatentable over Mizutani et al. (6,641,962) in view of Yahiro et al. (6,204,509).

Regarding Claim 83, Mizutani et al. disclose micro devices manufacturing method utilizing concave and convex alignment mark patterns where in claims 1 and 2 it is disclosed an exposure method for transferring an image of a pattern on a mask with the method comprising transferring an image of a mark on a mask to a substrate to form a first and second alignment marks with plurality of subs-pattern formed by a plurality of concave and convex patterns and detecting the alignment marks to obtain positional information of substrate based on the obtained information. Mizutani et al. fail to disclose the required charged particle beam structure. However, Yahiro et al. disclose projection-microlithography apparatus, masks and related method in incorporating reticle distortion measurement and correction where in claims 19 and 23 the required charged particle beam structure is disclosed.

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It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required charged particle beam in Mizutani et al. as taught by Yahiro et al. in order to manufacture semiconductor device with better performance.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FE February 6, 2005

